

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: jproc@worldlinx.com
Subject: AN/SRC501
Message-ID: <Chameleon.4.01.2.960907180908.jproc@>

Dear BA'ers,

In my quest to locate the above transceiver, I found out that it was a commercial marine unit which now confirms my hunch that I may be searching for it under the wrong identity. It also makes sense that the Royal Canadian Navy would have procured a commercial unit and assigned their own AN number in the 500 series. A maximum procurement of say 100 custom built units just didn't make sense to me. Armed with this new knowledge, I was wondering how many BA'ers have worked on commercial marine radios in the 1956 time frame?

Here the plan: For anyone who volunteers their snail mail address or FAX number, I would like to send a photo of the SRC501 and see if you can identify it as commercial marine firebottle radio.

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: ANTENNA COUPLERS
Message-ID: <9609061815.aa27837@pcusa01.ecunet.org>

Sandy says to forget about SWR when using tube type xmtr & home brew ant coupler, but...

Line loss due to high SWR is not the issue here (there *is* essentially no line between xmtr & coupler). However, most of these novice xmtrs used pi-network output and they need to see about 25 to 150 ohms or so to get max output, efficiency and harmonic suppression.

Having 4 controls (xmtr plate and coupling, and tuner L and C) to adjust can make you crazy. That's a lot of permutations & combinations. I know, I used just such a setup in my novice days! It took me a while to figure out how to do it right.

A better way is to first tune up the xmtr for max output into a 50 ohm dummy load. Then connect ant tuner and adjust it for max current or voltage (leave the xmtr alone). That way you're making the ant tuner transform the antenna's impedance to a 50 ohms resistive load for the already-tuned-up-into-50-ohms xmtr.

Only 2 controls at a time need to be twiddled.

-John Sehring (09/06/96 10:53 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
Subject: Antenna Tuners, SWR Meters, etc.
Message-ID: <Pine.SV4.3.91.960906201914.22789D-1000000@mesa5.mesa.colorado.edu>

Boy, I sure know that I'm getting to be an old geezer when I start having thoughts like this. Waaaaaay back in 1959, when I was a Novice, the standard "dummy load" used to see if your transmitter was making any RF was a 60 or 75 watt light bulb. My "tuner" was the pi-net output in my Johnson Adventurer. I didn't know what an SWR meter was, much less have one. Some how, I was able to get RF from my rig into my random length wire antenna. Even more unbelievable, I worked DX!

I guess my point is, yes, a tuner and an SWR meter are useful with a (gasp!) solid-state rig which will fry or shut down if the SWR gets too high. However, with tube type rigs which have a wide range pi-net output, tuners and SWR meters don't seem to be all that necessary.

Jim W0KSD

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: KA9EGW@aol.com
Subject: Re: Antenna Tuners, SWR Meters, etc.
Message-ID: <960906231949_473434603@emout09.mail.aol.com>

Agreed--with a wide-range pi-net, the rule of thumb was if I could get a plate-current dip, and the load control got me to the plate current specified (120 mA if I remember right in the ol' Eico 720), then the antenna was taking power. 43 states on a 25-foot bent indoor wire on 80 w/90W inoput seems to confirm this...

73, Brian KA9EGW (BAs from day one as a ham...)

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996

From: jproc@worldlinx.com
Subject: Re: BA Tube Exchange
Message-ID: <Chameleon.4.01.2.960905234457.jproc@>

Several years ago, we had a tube bank in Canada located in Nova Scotia, staffed by one volunteer and operated as a courtesy service to members of the former Canadian Amateur Radio Federation. Most tubes could be had for \$2 each, with a discount for quantity purchase. The bank depended on tube donations and for the cost of an SASE, one could obtain a current inventory. I believe that the proceeds were ploughed back to support local amateur activities. The bank does not exist any more but the idea was a practical one and it did last several years.

BTW, I have about 50 to 75 televison tubes which I separated from my main tube inventory. All of these are series filament string types (ie 3,4,5, 8,9,10,13,17, etc..volt filaments) Are TV tubes tubes with non-standard filament ratings of any value these days?

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
HMCS Haida, Toronto Ontario  
'Looking for an AN/SRC501'  
~~~~~

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: don merz <71333.144@CompuServe.COM>
Subject: CQ Deryl Shields, Bird Freebie
Message-ID: <960907161114_71333.144_DHB36-2@CompuServe.COM>

Deryl Shields please contact me.

FREE: Somebody took apart this Bird 4162C directional coupler for 108 - 400mhz.
If you want to try reassembling it then it's yours for \$3 postage.

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: Dallas Sidewalk STUFF!
Message-ID: <m0uzSfZ-0002FCC@e-tex.com>

Fellow gang-sters,

Saw very few BA type STUFF. Fellow had a rebuilt HQ-125X or 129 , I forget the type, in the most excellent condx for \$125. Goodly amount of BA type test equipment. The RME converter? preamp? was still there for \$20. If I needed more 829Bs could have gotten a life time supply. There was a Galaxy "linear", the one that used 10 or 12 sweep tubes.

Didn't get much. Came away with 2ea 5vct 1500V test, 24 amp xformers (shades of 4-400s gg) and 1 ea 250vct 25ma, 6.3v 1 amp. All for the princely sum of \$10.

Also bought all the (don't be vague) Sprague electrolytic caps, in the box, that one person can be expected to carry alone without a rupture. (didn't think I'd get'em to the truck.) Various MFDs and Volts.

Have seen better BA material there, but you never know, like a perfect ART-13 for \$10.

BTW I'm planning to apply drive to my 6 mtr 4-1000 amp for the first time, when I get to it in a few days, wish me luck.

73 de Pete WA5JCI

Almost forgot, 10 lbs of alphasmetals .062 (real BA size) rosin core solder went to the truck.

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: DAY 3 - Saga of the Valiant
Message-ID: <UPMAIL03.199609072225100268@msn.com>

Hi Gang, time for another report.

Special thanks to Kim Herron, Paul Carrerio and Jack Giehl for the trouble shooting tips and of course Phil Mills.

Heres what I did. Jack suggested remove all 5 of the 6146's and the 2 866 rect tubes. I did and the 8 amp fuse held. This pretty much confirms that the AC side of the Pri and Sec are good. BTW, they ohmed out per the manual. Next, Jack said put the rectifiers in by themselves, turn on the Filaments and wait for 10 minutes to allow the Mercury to vaporize. I did just that. BOOM. BTW Jack, did check that iam getting low level RF drive per your instructions. Thats O.K.

Next Paul suggested that one of the bypass caps on the P8- J8 might be shorted. Pin 6 to 2. Thanks Paul, checked no banana, Just BOOM.
BTW, did pull the plug to isolate, SOS - BOOM.

By now, the 5 gallon trash can next to my workbench is half full of 8 amp fuses. Ive already heard rumors that a 18 wheeler from Tandy in Dallas is heading to the Northwest side of Houston with nothing but 8 amp slow blows on board. Amazing how fast their system picks up on trends.

Next, Kim spoke of a factory mod to replace the filament wiring going to the 866 rects. I haven't done that yet, but did inspect and all seems well. Now I did notice that around the voltage divider resistors some wires had melted and it looked like an arc had happened. Thats where I left off today. You know, cant work on these thing every hour of the day.

Thanks to all for their help.
I'll get it fixed eventually.

Last BTW, went over to my Ham friend's house last nite to pick up the DC cable for the Gonset G-76. While there, he produced 3 NIB 6146B's, RCA and a 12 volt version of same, what is that a 8663, I think. Also a D-104 sans end connector. When I got home I figured they were pulls. Wrong.
NIB

Have fun All
fritsche@msn.com

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Rob Frans <fransr@iserv.net>
Subject: Eimac 8873... Price?
Message-ID: <32311AF4.256F@iserv.net>

Hi there... quick note... any idea on the cost and availability of the Eimac 8873 tube?

Thanks,

Rob
Kc8BAP

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Tom Norris <badger@telalink.net>
Subject: Finally *I* found a deal, but need Tek Info
Message-ID: <2.2.32.19960907030123.006e831c@telalink.net>

After hearing all the wonderful tales of BA acquisitions and dumb luck, etc. I finally have one (although pseudo BA) of my own to add.

Bear in mind I have been grumbling for months about not having

a scope.(I just bought a 547 off the list last month.)

Was passing through Huntingdon Tennessee today while on my way back between Nashville and Jackson and happened to stop by a small service station there. Sitting in the back all alone and covered with grease grime and who knows what was a Tek 561 with 3A6 plugin, 2B67 timebase, and type "D" scope cart. I looking like it hadnt been used in a while, I asked the guy "how much?" He dawdles a bit and tells me that he hasnt used the scope in 5 years or so, when a customer provided it to him to service some, as he put it "fancy electronic stuff" on some heavy equipment. Goes on to tell me the customer had gone bankrupt some time ago, and that darned scope was in his way anyhow and proceeds to roll it outside toward my car. Again, I ask : "how much?" He repeats "The thing is just in the way, let me get some rags and get some of this grease off and I;ll help you load it into the car." I could of fainted! Usually the best I can find for free are old gutted ART-13s at best and TV carcasses at worst.

It cleaned up very nicely outside after several buckets of soapy water applied liberally to the cart, front and side panels. The thing looks like it is almost new, 'cept for the grunge that coats every square inch inside. The shop works on a lot of heavy equipment and diesel powered stuff, and grease and soot are everywhere and in everything.

BUT- it does work. Even reasonably calibrated, as scopes go. A little weak on horizontal sweep, only goes about 80% width of the screen -- once I degunk the inside, reseal the tubes and clean all the switches and pots, that may fix itself.

My question, since I didnt follow the earlier Tek scope discussions here because I knew I would never have a "newer" Tek, is --

** What are the specs on the 561 and the 3A6? **

.. and would anyone have an extra 1A1 plugin lying about that I could talk you out of for less than an arm and a leg? The 547 has an "M" and 4 traces are a bit much for most my uses....

Thanks

Tom Norris KA4RKT
badger@telalink.net Nashville, Tennessee, USA

Aahz' Law: "The best way to get information on Usenet is not to ask a question, but to post the wrong information."

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
Subject: FS Johnson KW matchbox in very good condition \$200.00

This 1KW matchbox is the model without the meter and is in very good condition. Call Mark 414-434-8097 after 6:00 pm central

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* NOTE: The message above is a re-post from the newsgroup rec.radio.swap. *
* All replies *must* go to the person making the post, not me. *
* * * * *

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Jack Giehl <jackg@one.net>
Subject: FS R1051B Receiver
Message-ID: <3231B76E.20B2@one.net>

Dear BA enthusiasts,

I have a Harris R-1051B for sale. This Navy receiver is synthesized and all solid state except for two tubes in the front end. Covers 2-30 meg, AM-USB-LSB-ISB, and is extremely stable. Complete with copy of manual for \$350.

Thanks, Jack

Jack Giehl, WB8BFS, Loveland, Ohio
jackg@one.net

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
Subject: FS Siemens Receiver

FS Siemens receiver. Could be WWII German Navy. All controls in German. 115khz to 27 Mhz in 7 bands. Two crystal positions. Dust proof case, recessed controls, battleship grey, operates well. Extra tubes. Funk. empf. 66a Werk no.173 (Wireless receiver model 66a serial no 173) Inquiries/offers to Herb ...hluther@mb1.edu

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<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Mark S. Hovda" <75301.3141@CompuServe.COM>
Subject: FS: TR-3 & TR-4 Manuals
Message-ID: <960907010404_75301.3141_GHI72-1@CompuServe.COM>

The manuals are originals and in good condition. \$12 for either one post paid to US. If there are multiple responses, I'll make a random selection. Responses must be in by 8:00 CST Monday, September 9th. e-mail only please. Thanks,
Mark
N0JWI
75301.3141@compuserve.com

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Joseph W. Pinner" <kc5ijd@dns1.net-connect.net>
Subject: FS: 2.1 Kc S-Line filter
Message-ID: <199609071533.KAA05336@dns1.net-connect.net>

F455FA21 filter (2.1 Kc) for the 75S-3B.

\$ 45 shipped.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: John Kolb <jlkolb@cts.com>
Subject: FS: ARRL Handbooks
Message-ID: <Pine.SC0.3.91.960907094345.28545A-100000@sd.cts.com>

For sale or trade 1969 and 1977 ARRL Handbooks. Good condition.
\$11.00 each postpaid (book rate mail) or ...

Wanted:
ARRL handbooks from the 50's with those great ads.
455 kHz IF trnasformer 3/4" square bade can mounted with
a clip.

John Kolb KK6IL jlkolb@cts.com
Ramona, CA 92065

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Joseph W. Pinner" <kc5ijd@dns1.net-connect.net>
Subject: FS: Drake 2B
Message-ID: <199609071534.KAA05339@dns1.net-connect.net>

Am trying to slim down my collection of BA equipment.

Have a Drake 2B receiver in good condition which I just don't use.

It has some small spots of rust on the front panel at the bottom of the
cutouts for the slide switches.

\$ 95 plus shipping.

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
Subject: FS: Hammarlund HQ-129-x

For sale or swap for old radios. Hammarlund HQ-129-x works great. Crinckle paint on top is bad needs to be repainted on top. \$90.00 or consider trades. Greg ke6lpv

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Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: FS: Viking 2 and Super Pro Cheapo
Message-ID: <Pine.GS0.3.93.960907162136.3732B-100000@iglou1>

Ok folks. Now that the word is out, here's the deal.
I have a viking 2 that is very dirty and rusty but complete with all knobs, xfmr's etc plus an old dirty, rusty SuperPro that is also complete. They were stored in a barn, not a bardge, for 20 years.

I will sell these for \$50 for both units. This will buy my lunch for almost a week! Shipping will cost you \$\$\$\$\$. Come and getem. No Harvey wells trades either Allan. Nice try though.

> Actually, that Viking would clean up pretty nice, and it is
> not difficult to work on... Steve also had a Super Pro in similar
> condition - said they had been stored on a barge for 20 years (or maybe
> he didn't say that - just l;ooked that way...)

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
Subject: FS:Hallicrafters Trancievers

I have the following for sale:
Model SR-500 (500 watt ssb)

Model SR-2000 (1000 watt ssb)

These are tube units from the sixties. They come complete with power supply and original manual. They are in perfect working order and very good cosmetics, except for sr-500 power supply, which has a small dent on top.

Please make an offer (shipping extra)

Sincerely,

Robert

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WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Scott Townley <n timer@primenet.com>
Subject: Re: Fundamental Amplifier Question
Message-ID: <1.5.4.16.19960906222909.0a6f4410@mailhost.primenet.com>

FWIW, every single EIMAC application note I've ever seen plainly states that grid current is the "unconstrained variable"; i.e., that with stated drive power and plate voltage/current, the given values of grid current are *typical* and will vary from tube to tube.
So if you can get maximum output with the spec. plate I/V, you're there.

At 14:41 06.09.1996 -0500, Dale Braun wrote:

>I am currently running a homebrew linear amplifier using two triode-connected
>813's in grounded grid, class B. From articles I have read, typical full input
>current readings for class B operation would be 400 mills on the plate and 100
>mills on the grid. So what happens if I am able to get maximum output with
>less grid current? Does that translate into operating under some other class
>of operation or necessarily add distortion to my signal?

>

Scott Townley "When the Going gets Weird,
nx7u@primenet.com the Weird turn Pro"
 -Dr. Gonzo, Sports Editor

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS Johnson KW matchbox in very good condition \$200.00
Message-ID: <67294.ddillman@igc.apc.org>

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From: Mark <ke9pq@netnet.net >
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS or Trade: Signal Corps Wireless Sets No. 19 Mk II
Message-ID: <67317.ddillman@igc.apc.org>

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From: Chris Baldwin <cbaldwin@mailhost2.csusm.edu >
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS Siemens Receiver
Message-ID: <67311.ddillman@igc.apc.org>

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From: Herb Luther <hluther@mb1.edu>
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS: Hammarlund HQ-129-x
Message-ID: <67300.ddillman@igc.apc.org>

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From: Greg Wittig <gwittig@microsys.net >
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS:Hallicrafters Trancievers
Message-ID: <67289.ddillman@igc.apc.org>

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From: Robert Ramirez <robtram@ns.net>
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: HRO-7 J - Coil F/S
Message-ID: <67305.ddillman@igc.apc.org>

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From: LBRTY4US <lbrty4us@aol.com >
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Gaithersburg Hamfest Info
Message-ID: <Pine.GS0.3.95L.960907102536.7068G-100000@unixs5.cis.pitt.edu>

Can anyone assist me who knows the procedure on tailgaiting at this hamfest. Do they open the gates early in the morning just for tailgaters and then open them later for general admission. If one gets there by 6 or 7 in the morning, can he still find a tailgate spot?

Thank you.

Dave, W3BJZ

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>
Subject: Re: Gaithersburg Hamfest Info
Message-ID: <Pine.A32.3.91.960907104430.20717A-100000@ppdu.nrl.navy.mil>

To Dave, W3BJZ and other BA Members,

I heard from Larry, WA3EJL, that tailgaiters can set up Saturday 7 Sept starting noon at the Gaithersburg Hamfest. My QST states that the Hamfest officially is open 6AM to 4PM on Sunday 8 Sept. There may be some problem getting space this year because of all the rain.

Hope to see other BA types at the Hamfest. I will be wearing a red hat and have my name plate plus call sign pinned to my shirt. Please say hello!
Sincerely, Paul Bernhardt, KF4FOR

On Sat, 7 Sep 1996, Sandra L Knepper wrote:

>
> Can anyone assist me who knows the procedure on tailgaiting at this
> hamfest. Do they open the gates early in the morning just for tailgaters
> and then open them later for general admission. If one gets there by 6 or
> 7 in the morning, can he still find a tailgate spot?
>
> Thank you.
>
> Dave, W3BJZ
>
>

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: k1zat@dsport.com
Subject: Re: Gaithersburg Hamfest Weather
Message-ID: <Pine.GS0.3.95.960906212556.3045A-100000@puff>

According to the 1800 news here in DC, Sunday is suppose to be somewhat Sunny, humid, and possible showers in the late afternoon.

See ya there....jd

On Fri, 6 Sep 1996 RWAYNE@ctc.net wrote:

> What is the weather forecast for the Gaithersburg area on Sunday?
>
> I am planning to bring a BA or two from NC if the wx forecast is
> favorable.
>
> Thanks,
>
> Richard W4CBG
> rwayne@ctc.net

>
>

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: TEK0CH@aol.com
Subject: Gonset Tri-Band Mobile Converter
Message-ID: <960906203928_517371982@emout14.mail.aol.com>

I received a nice Gonset Tri-Band Mobile Converter from Greg K4XR in the mail today. I want to install it in my 1963 356 Porsche to scan the AM bands as I move around the country side. Does anyone have a schematic or any data on this converter. I had one back in the 1950's in my 1950 Buick mechanized ram. As I remember it required about 150vdc that you could steal from the car radio and I think 6 volts dc. That is going to be a bit of a problem because the radio in the Porsche is solid state and I doubt I will find 150 dc anywhere in that box. I guess I will have to build up a separate supply for the converter. Any Ideas. Oh, by the way the 356 is a 6 volt version too!

73

Tom Koch - W4UOC
tekoch@aol.com
8170 Habersham Waters Road
Dunwoody, GA 30350

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Hallicrafters S-107 Available
Message-ID: <67322.ddillman@igc.apc.org>

I have a Hallicrafters S-107 receiver available for sale. The S-107 is an 8 tube, single conversion receiver covering the broadcast band, 2.5 to 31MHz and 48 to 54MHz with BFO and ANL (see Dachis page 69).

This example is in good to very good condition electrically and mechanically. Operational on all bands, all original knobs, all the tubes I can see are original Hallicrafters. Slight calibration touch-up might be required for the perfectionist (WWV appears at 10.4MHz on the dial), very light scuff marks on top and side of case, one dial light not working, slight paint chipping around two of the four screws holding the black dial background plate, easy to reach and touch up.

\$75 plus shipping from San Francisco.

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: dma@IslandNet.com (Jan Skirrow)
Subject: Ham Happening 96
Message-ID: <m0uzUsa-000VvdC@comm.amtsgi.bc.ca>

I just got back from the Ham Happening 96 swap meet, held this year in Nanaimo (due west of Blaine, Washington on Vancouver Island). A good crowd, but not near as much stuff as last year, and very few BoatAnchors. A lot of computer stuff.

I got a CV591 (TMC) in really nice shape with manual for the Canadian equivalent of about \$100US and a hallicrafters S-36 in near pristine condition with manual for about \$30US.

There was a very nice HW100 with power supply that sold for about \$70US - I'd have had it if I'd gotten there 10 minutes earlier. Also saw a so-so Hammarlund HQ145 that wasn't attracting any interest at \$160US. It was a rack mount version, which I've not seen before. A Heath Sixer with vibrator supply went for about \$30US.

There were a few military items: a BC348L (no price), an aircraft DF receiver; a gutted ARC5 transmitter and a bag of what used to be inside it. A couple of Racal transceivers that looked like backpack sets. And so on. My car was full at this point, so maybe another time!

Jan Skirrow, VE7DJX

dma@islandnet.com
Duncan, British Columbia

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: Heads up in Houston and Austin!
Message-ID: <m0uzSnK-0002FRC@e-tex.com>

Hello down there in the low country and hilly country,

There will be a tailgate sale about one mile north of Jewett on US 79. Pretty good event in the past. Bring or buy. No charge. Starts when you're brave enough to show up. Ends when you give up and leave. Right side of highway going north.

WHEN! Sept. 14, 1996

Talk-in 147.46 Mc.

Need more info? Ask!

73 de Pete WA5JCI

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Rob Frans <fransr@iserv.net>
Subject: Heathkit SB104A Call Letters...
Message-ID: <32311949.3CC7@iserv.net>

Hi there... bit of info for you that have either an SB104(a) or HW104 Transceiver that you may not have the "kit" to update the rig to display your call letters... (For those of you who know what I am referring to, read on...)

On your Word Processor, create your call letters in an ARIAL BOLD font around... 18 point... depends on your software... give it a black background with white letters...

Print several renditions of various font sizes until you get the right size for the display on your Heathkit...

Then... make an overhead transparency of the page (used for an overhead projector for group presentations etc...blank transparencies can be fed thru a copy machine just like a piece of paper to create the "overhead")

You will end up with a clear piece of acetate... (transparency) that will have your call sign show up in clear letters with a black background.

Cut out the transparency to "fit" into the space in the front of your Heathkit... The pilot light behind the call letters will illuminate thru the letters, giving the original effect that the transceiver was intended to display...

Good luck... hope this helps! Someone passed this idea onto me when I acquired my SB104a... Works GREAT!!!!

Rob
KC8BAP
Grand Rapids, MI

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: HELP! -SP600 round 2
Message-ID: <Pine.ULT.3.95.960907172858.13405B-100000@admin.aurora.edu>

Well, the oscillating IF was caused by a mod to add an outboard Q multiplier. When cable was removed from IF (yes it was shielded) the problem went away. Guess I had never aligned the IF's before or this would have shown up a long time ago.

However, the IF still shifts frequency with a change in the selectivity switch. Boy that xtal filter sure works nice though.

Final question. The tuning mechanism has slippage in it. The slip is between the main shaft with the tuning knob on it, and the spring-loaded idler wheel that rubs on it. Increased the spring tension a little but didn't really help. Any suggestions? Like maybe some rosin?

Seems that someone was starting to collect SP600 data so here's mine:
SP600-JX-6 SN 5911 has penciled date of 4-28-57 in 2 places on chassis.
Has metal tag above S-meter that reads: R-274B/FRR NObsr-52039 13:CHC

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: HELP! needed on SP-600
Message-ID: <Pine.ULT.3.95.960907131703.11185C-100000@admin.aurora.edu>

Mark Mandelkern prompted me to take a serious look at my SP-600 today. Mine has been modified with the addition of a product detector. Lately, I have noticed a slight frying noise. Mark asked if mine had those nasty black caps inside - Yup, sure does. Well, you guys made a believer out of me: If ya got a SP600 then replace all the black caps! More than half of the ones I took out were split open down the side of the casing.

Of course Murphy had to intervene just to keep me on my toes: after turning it on, it was dead. B+ reading 5 ohms to ground! Culprit was one of the new caps I had installed (goes from B+ to ground).

Anyway, my problem is this. I had previously noticed that when changing the selectivity control, the IF seemed to shift frequency. So I aligned the IFs per the manual. One step says to peak L37 with the selectivity at 1.3kc. Well, it doesn't really peak. Has a very broad response that provides increasing output - still slightly increasing as the slug is screwed all the way into the can.

So not only does this slug not peak, I have this IF that changes center frequency such that the S-meter peaks at 455.2kc @ 1.3kc BW, 454kc @ 3kc BW, 453kc at 6kc BW, and about 452kc at 13kc BW.

I assume the 2 problems are related, but maybe not.

The other problem is that with the RF gain up full, the IF seems to oscillate (S-meter goes up and I get a pretty nice note with the BFO on). This oscillation changes freq when the selectivity is changed, indicating, as above, that the IF is shifting freq.

Any ideas? Anyone else had this experience? Boy, I really hate the thought of having to remove T3!

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Bob Duckworth <rmd@ka4ybr.netmha.com>
Subject: HP120B scope to trade.
Message-ID: <199609070045.UAA13247@ka4ybr.netmha.com>

HP 120B O'scope (tube type but compact) to trade.

It doesn't need to go in the dishwasher, it's all there,
and works and the manual is
in very good shape.
Has DC and AC coupling and is very straightforward design.

Still looking for 6m amp parts. Mainly need ps, cabinet, and chassis.
Small desktop HF KW amp carcass sans tubes and RF parts should do fine.

Also turned up this grey thing. AM-6154 GRT-21.
Supposed to cover 2m and runs on 110V. Suppose I could

convert this unless there is a 6m version of it that someone will swap me.

-bob
WB4MNF

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: HQ-170AC - The Final Chapter
Message-ID: <19960907.005702.4439.5.k7yha@juno.com>

Gang:

IT's DONE!

Got the RF alignment done today, went back and recalcd the S-meter and Xtal cal.

The problem with the low sensitivity was traced to a 40 dB attenuator.....in the radio. Please allow me to explain.

One of my students was helping me restore this rig. He is also a ham and wants to get into BAs when he graduates (God love him!). We did the 6 meter alignment first, then proceeded to do the rest of the alignment. We took a break between these two occurrences, so when we came back to finish the alignment yesterday, Roger hooked up the RF gen to the 6 meter antenna instead of the normal HF antenna input on the rear of the 170. Basically, we were aligning the receiver using RF leakage from the generator probe.

Once we found the problem, MDS was astounding....matter of fact, I have a difficult time believing that the 170 hears THAT well. MDS on 40 -10 meters was in EXCESS of -120 dBm, which calculates out to about .25 microvolts (according to the calibrated dial on the HP608C generator I have sitting next to the HP 606C)! 6 meters was lower, about -100 dBm. 160 and 80 were -115 and -117 respectively. NOT BAD for 33 year old technology!

The case has been reinstalled. Next week we are going to try to get the "parts" radio playing.

Monday or Tuesday the HQ-170 will be coming home to the shack to live. I already have it's mate, a B&W 5100B transmitter on the operating desk. I am one happy camper.

I'd like to take this opportunity to say a big THANK YOU to all who responded with comments, ideas and helpful hints. A special thanks to Robert

Fowle and Al Fritsche for their support. The BA net is outstanding!

73 rich K7YHA

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
Subject: HRO-7 J - Coil F/S

This is the 50 - 100 kc coil for the HRO-7 (and will work in others).
Uncommon. \$50 shipped CONUS, or trade for very early HRO D coil.

Frank

----- Forwarded message ends here -----

* * * * *
* NOTE: The message above is a re-post from the newsgroup rec.radio.swap. *
* All replies *must* go to the person making the post, not me. *
* * * * *

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: Lrware@aol.com
Subject: Larry's trying to lighten his place, -or- radios for sale...
Message-ID: <960907130106_196378002@emout07.mail.aol.com>

Good evening folks....

Today as I try to find room for all the stuff I bought at the
Shelby hamfest I have decided to tearfully part with,
(dump in somebody else's shack :-)
a small collection of interesting radios.

First Items:

One pair of Lafayette communications receivers.
Those of you properly equipped (meaning you always keep
your Moore's 3rd handy :-) can turn to page 70.

One model HA-230
built 1965-1966,
4 bands .55-30 Mhz coverage
Filter: Q-Multiplier

Tubes: 8

This radio is in good working condition and includes the matching speaker for it. Very minor rust, good tubes (most new), all correct knobs, etc. good unit, about a 6.5 on 1-10 scale.

Also one KT-340 (kit version of above)

Does not work, but is complete and could be repaired.

Problem somewhere in the IF chain, and dial glass is losing lettering badly. Good parts spare or repair project.

All tubes good, knobs correct, etc.

These "Twins" are available to a good home.

Asking price for the pair was \$90, No bites, so they are now reduced to \$75 for the pair, or will consider trade for ?

I will throw in a manual for the KT-340 (photocopy). This is the manual to have as it includes all the diagrams, data, etc.

OK folks, somebody out there must want these wonderful twins. If it will make you happy we can call them rare and unique examples from the Allied or BA Catalog and I'll be happy to charge you \$1999.99 each for them... :-)

Item two:

One Hallicrafters S-38B in good working condition.

recent new tubes, + a couple of spares I'll throw in.

Has been repainted, with correct wrinkle black.

Paint job is very good but lettering could use a little work.

Asking price for this fine piece of Halli-history is \$40.

About a 7 on 1-10 scale.

Item three:

One Knight Space Spanner radio. This is a little regen. unit, might of been your first receiver... :-)

Three tube rig, Antenna tuner control had no knob when

I got it, not sure if it's supposed to have one...

All other knobs correct. Three wire power cord added, as was ground terminal on back of chassis.

Been recap'ed, new tubes, etc. but doesn't work all that well. not sure if poor performance is normal for the little thing.

Asking \$25, About a 6.5 on 1-10 scale.

If you think the prices are high, make an offer! I'm very hard to insult and the worse thing that could happen is you might get a radio!

I'm open to trade offers, trade with cash going either direction, trade for parts, etc.

Currently looking for the following:

- 1) Tek 7000 plugins and/or test fixtures
- 2) Any National or National Clone (W/G, etc.) receivers
- 3) Interesting LF or VLF receivers
- 4) Large display dud Transmitter Tubes
- 5) Interesting old electronics books, manuals & catalogs

All radios are "plus shipping."

Somebody recently called these, "The Rules of Ware" on the BA mailing list. I'm flattered...

In the case of multiple offers to buy:

Winners will be determined by:

- 1) Tell me why you need/want them, points awarded for:
 - a) Owning matching equipment already.
 - b) Needing them to complete a collection.
 - c) Buying for someone your "Elmer-ing"
 - d) *Making up an outrageous story of what you will use them for. :-)

* For item "d" the taller and more unbelievable the better...
- 2) Bonus points to anyone who has sent me a manual, helped me find a part, or provided advice, (good or bad, it's the effort that counts. :-) or sold me something at a reasonable price.

Winners will be determined any darn way I feel like.

Judges decision is final. (Although open to bribes :-)

-Larry Ware
lrware@aol.com
Orlando, FL

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996

From: MODSTEPH@ACS.EKU.EDU

Subject: Louisville Hamfest and new toys

Message-ID: <01I97BKAZCBC002UDE@ACS.EKU.EDU>

Of course all the good stuff was gone by the time I got there at 8:05 (doors opened at 0800... ;)), according to several... There were some good deal BA's. Saw several list members there, including one who wanted me to take home a Viking II that was dirty, no top, and looks quite restorable. If I NEEDED another project.... I told Steve that I would swap him even for a harvey-Wells Bandmaster (no PS or VF0), but he declined. His sign said \$50 or make offer" -- and he told me he'd take \$30 for it. Temptation! I considered offering him \$20, but

did not, because I was afraid he would take it and I would be duty

bound to restore the Viking. Almost... :)

I found power supply parts for a PS for the Harvey-Wells so Steve, how about a swap for the H-W WITH a power supply.... :)

It rained very heavily this morning, but the entire hamfest was indoors in the very large exposition center on the Kentucky fairgrounds on the south side of town... but for the thunder and the wet grounds when I left, would never have known it rained.

Actually, that Viking would clean up pretty nice, and it is not difficult to work on... Steve also had a Super Pro in similar condition - said they had been stored on a barge for 20 years (or maybe he didn't say that - just looked that way...)

I did get an HQ-180AX which will probably go on to a friend who has been looking for an HQ-180 (or maybe not - will see how this one cleans up)

Had a good time - won't go back for the second day tomorrow, but the Louisville hamfest Assn. is doing a very good job.

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: rmorgan@us.edu (Robert Morgan)
Subject: Magazines for sale
Message-ID: <1.5.4.32.19960907192143.0066a4e0@us.edu>

List 5, September 7, 1996

All items may be returned if not acceptable for any reason. All I ask is that the buyer pay for return shipping. I try to describe significant defects and features, but I'd be happy to answer questions. However, I think the "first offer gets it" policy is the fairest. Please understand that if you write for details, I'll be happy to respond, but I WILL accept the first "I'll take it" message. PRICES INCLUDE SHIPPING VIA UPS OR USPS (first, third, or fourth class, depending on weight). Please, no phone calls.

Bob Morgan, K8RBV

These didn't sell last week. Reduced. 20's QST Magazines:

1. January, 1926, spine taped, \$10.00
2. January, 1926, good, \$10.00
3. February, 1926, spine wear, \$10.00
4. March, 1926, good but missing corner of cover, \$10.00
5. April, 1926, good, \$10.00
6. May, 1926, good, \$10.00
7. June, 1926, good, \$10.00
8. August, 1926, good, \$10.00
9. September, 1926, good, \$10.00
10. October, 1926, covers loose, \$10.00
11. December, 1926, good, \$10.00

I have many (too many to list) magazines:

QST from 1930 - 1935 which are available at \$5.00 per issue (postage included) and 1936 - 1942 which are available at \$4.00 per issue (postage included).

I also have issues of 73 magazine from 1961 (vol.1 of the mag) - 1968 which are available at \$4.00 per issue (postage included). The ads in these mags are great!

I also have CQ magazines 1946 (second year of the magazine) - 1949 which are available at \$5.00 per issue.

Send me your wants for an email response as to whether I have it or not.

Reminder: Prices INCLUDE shipping. Discount if you order in quantity.

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: Fire Bottle archive handler <firebotl@jackatak.theporch.com>
Subject: MATCHBOXES
Message-ID: <9609062114.aa25477@jackatak.theporch.com>

My two cents... (about all that's left from a week away and Shelby! ;^)

> > John, I would recommend the KW Johnson tuner for the receiver input.
> > Dxers have always recommended this tuner over the 275 watter because of
> > higher Q. (slkst29+@pitt.edu)
HMMMMMMMMMMMM....

> Thank you for this info!
HMMMMMMMMMMMM, again...

> However, according to tests of various antenna matchers in QST 5/95, the
> smaller Matchbox had *less* loss, at least for the kind of antennas loads
> used in the tests. Hmmm.

Since loss is the difference between what goes in one end and comes out the other, it strikes me that the DX'ers are very much the Ham Radio analog to the glass audio bunch... and besides, what self-respecting DX'er would even admit to using low enough power to get by with "only" a 275!

Remember, in DXing, BIGGER is (thought to be) better... and just raw size, the KW 'Box *looks* more impressive...

Besides, extra class tickets, two letter calls and all, the tendency is to forget that the 275W 'Box was designed for *AM* with 4x275 or 1100 Watts PEP capacity (and EF Johnson didn't scrimp on much when it comes to power! ;^)

Like the Hustler coils,, where the "smaller" are BETTER, and the BIGGER are lossier, the 275 MATCHBOX is a fine piece of gear, capable or handling most balanced antennas without a problem, and they work extremely well for tuning and matching antenna system impedance to a receiver.

BIGGER 'Box with higher "Q"??? I don't really think any of us has a meter that would measure the difference, but to a DX'er... go with the 4 aught cable for the speakers, and make sure the oxygen content is correct and the cable is properly polarized... ;^)

Sheesh! Use an "L" network and get happy quickly!

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

- - - BoatAnchor Mailing List Archiver/Owner - - -

firebot1@jackatak.theporch.com ---- listown@jackatak.theporch.com

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996

From: JOHN_SEHRING.parti@ecunet.org

Subject: MATCHBOXES

Message-ID: <9609071430.aa11661@pcusa01.ecunet.org>

From: Steve Ellington <n4lq@iglou.com>

Subject: Re: MATCHBOXES

> > However, according to tests of various antenna matchers in QST 5/95,
> > the smaller Matchbox had *less* loss, at least for the kind of

> > antennas loads used in the tests. Hmmm.
>
> I have been told that the 275w matchbox can easily handle a kw dc.
> Haven't tested this though.

I have run my pair of 572B's thru it, that's about 600 watts with no problem. But it depends on exactly what load the matchbox sees. With some loads, I get arc-overs. Sometimes, detuning the Box somewhat helps.

It is conservatively rated though, I'd say.

-John Sehring (09/07/96 9:44 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: NATIONAL NC-57, -125, -88, -98
Message-ID: <9609071430.aa11679@pcusa01.ecunet.org>

> Speaking of "similar" circuitry, the NC-57 carried over into the
> NC-125. The 57 and 125 are EXACTLY the same except for the
> Select-O-Ject and the
> mechanics/cosmetics.

Yes, they looked radically different from the front. Ah, marketing.

> and the NC-88 and NC-98.
Except that the -88 used miniature tubes. And it lost the Select-O-Ject which I consider a very useful feature. For removing hetrodynes it's great. Since it's an audio filter (does notch or peak), the notch doesn't depend on local osciallator stability or exact signal tuning to do its job.

The -98 had the same basic circuit plus an xtal filter.

The strange thing is that all three of these were advertised at the same time during at least 1955.

> E. V. Sandy Blaize, W5TVW

-John Sehring (09/07/96 10:35 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Need info: Hammarlund HQ-180AX
Message-ID: <01I97BAKH3GY002UDE@ACS.EKU.EDU>

...which somehow jumped into my trunk as I was leaving the Louisville Hamfest today...

It is the HQ-180A with a crystal selector switch and sockets in the clock position, for fixed frequency selection. Would particularly like to know how the crystal frequency selector works: what xtals do I need for what frequencies....

73, A1 N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Pentti Haka" <pha@mikrolog.fi>
Subject: R390A SSB unit wanted
Message-ID: <MAILQUEUE-101.960907141248.416@osku.mikrolog.fi>

I am looking for a sideband converter (CV-157, or something lighter :-) for my EAC R390A. Preferably in working condition & with manual & cables.

My R390A is also missing the internal cable from the IF unit to the backpanel "IF OUT" connector. Would like to buy the cable or just the connectors.

I also need one male binaxial antenna connector for the R390A, I do not know the type number.

Pentti Haka, OH2TC

----- Pentti Haka -----
-- Pentti.Haka@Mikrolog.fi --

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: frank_adams@onf.com (Frank Adams)
Subject: Re: Re: BA Tube Exchange
Message-ID: <2033269084.15643783@onf.com>

>BTW, I have about 50 to 75 television tubes which I separated from my main tube inventory. All of these are series filament string types (ie 3,4,5, 8,9,10,13,17, etc..volt filaments) Are TV tubes tubes with non-standard filament ratings of any value these days? <

I have over 1,000 of them NIB; they are lousy for target practice. Anyone find any uses, besides waiting for teevee restoration to get popular? Pls remember we are talking the above types, not nice sweep tubes with 6v fils...

?

Have a bizillion Compactrons in the mix, and many others. Amazing what the list price tags on the boxes extracted from Harry, when he was trying to fix the kitchen-counter B&W so the kids wouldn't miss Mr. Wizard...

Frank

Frank

--- OffRoad 1.0 unregistered

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Roberta's Signing Out
Message-ID: <UPMAIL03.199609070049560397@msn.com>

Gang, Got it backwards, Bobbi is signing out.
Perhaps I just need to go and watch TV, (Yuch).
as always, your friend Al
fritsche@msn.com

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: drhydro@ames.net (Paul Nelson)
Subject: S-76 values?
Message-ID: <v01540a02ae567a063514@[1.1.1.1]>

A local guy has an S-76 receiver with an R-46 speaker; both in unknown condition; complete, broken plexiglass window on the freq dial; looks like they might clean up, but fairly dirty and grillcloth very stained- I might be interested, but don't know what to offer in this shape. Anyone offer some guidance?

Paul Nelson W5GNF
Ames, Iowa

(DrHydro@ames.net)

Cessna 140 N77149

"When I go, I want to go quietly, in my
sleep, like my grandfather- not
screaming, like his passengers."

"More hay, Trigger?"

"No thanks, Roy, I'm stuffed."

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: don merz <71333.144@CompuServe.COM>

Subject: Stuff & Literature FS

Message-ID: <960907160737_71333.144_DHB36-1@CompuServe.COM>

Radio Stuff and Literature For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

STUFF

CN-287/TRM-1 attenuator (12db) CBVQ: \$5 PPD
KS-15190 Step attenuator (pushbutton) for 75 ohm lines, 3,4,5,6 & 13 db
in any combination selectable. 0.1 watt max. \$ 8 PPD
KS-15191 Step attenuator (pushbutton) for 75 ohm lines, 5,10,20,20, & 20 db
in any combination selectable. 0.1 watt max. \$ 8 PPD
Interphone/Radio chestset switchbox (plastic) SA-142C/GSA-6. This has 2
pushbuttones (RADIO and INTERPHONE), 3 connectors (for the headset, the
radio and the intercom, I guess) and 2 canvas straps for attaching it
to your body. My references show this box used with AN/GRC-3 through
AN/GRC-8. 2 to sell. \$6 each PPD
Unopened box labeled "Maintenance Parts Group for Hand Generator For No. 48
Wireless Set," "Voltage Regulators (Complete)," "Emerson Part No. G-X-30,
Quantity 5, Order No. 8579-Philia-43." \$14 PPD

LITERATURE

Sylvania News: 1 issue from 1934 and 13 issues from the war years
1941 - 1943. \$15 PPD for all
Radio Shack "Now You're Talking" ham license training book. \$3

The following are military manuals in excellent condition:

SIG 660-60 Reference Data For Fixed Station Communications Equipment,
1953. Published by The Signals School, Fort Monmouth, NJ. This shows
photos and specifications for the very biggest boatanchors. The BC-610
is shown and it is about the smallest radio in this 100+ page book. \$35
TM 11-450 Training of Signal Communication Personnel, 1942: \$9
TM 11-454 The Radio Operator: \$9
TM 11-665 CW and AM Radio Transmitters and Receivers. This is a
training manual that uses the BC-610 and the R-388 as its
examples, 1952: \$21
TM 11-2205 Exciter Units 0-5 & 0-5A and RF Oscillator 0-86/FRT,
1948: \$12
FM 24-6 Radio Procedure, 1941: \$7
FM 24-18 Radio Communication: \$11

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: SX-115 VS. SX-101*
Message-ID: <9609061815.aa27844@pcusa01.ecunet.org>

The Halli SX-115 should be compared to the SX-101*A* rather than the SX-101.

The A version has a product detector and AGC time constants more suitable for SSB use (sadly it lost 160m coverage).

>From the 2nd mixer onward, the circuits of the two are remarkably similar. In particular, the 50 KHz IF stage and the product detector are exactly the same. So, the selectivity of the two is exactly the same.

The SX-115 uses audio inverse feedback for less audio distortion. Its dual loop AGC may have faster attack and give a flatter characteristic (it also modifies the 'dynamic' selectivity characteristics of the rx). These would make for 'mellower' audio quality.

Yes, it is more stable due to using a PT0/xtal scheme which runs in one freq range only instead of an HF oscillator running at $\text{freq}(\text{rx}) \pm \text{IF freq}$. It's smaller too (yeah, I know that's not desirable for a BA).

-John Sehring (09/06/96 10:34 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Walter Fairclough" <wfairclo@netcom.ca>
Subject: SX-76
Message-ID: <199609062346.TAA27666@tor-srs2.netcom.ca>

Some had an SX-76 for sale (the one with the xtal calibrator added). I've lost the message. If its still available, please email me.

Thanks

Walter Fairclough
Manotick, Ontario
wfaircl@netcom.ca

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "Barry L. Ornitz" <u856010@eastman.com>

Subject: TS-323/UR Manual Needed

Message-ID: <Pine.ULT.3.91.960906200427.21633D-1000000@dua150.kpt.emn.com>

I bought this nice little VHF version of a BC221/LM frequency meter at Shelby last weekend. It has the calibration book and is in excellent shape with a built-in AC supply.

I would like to use this little gem for a detailed study of what a regulated filament and plate supply can do. I mentioned earlier that I had done this with a TS-413B in the past with good results, but someone wanted me to give exact numbers for the improved stability with line voltage, etc. I thought the TS-323 would be a reasonable unit to experiment with by doing before and after testing in various stages of modification to the power supply. [Actually nothing is done to the RF section at all.]

But I need a manual and schematics, obviously. If anyone can help, please respond to the address BELOW. Thanks.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996

From: aa4rm%amos@mathcs.emory.edu (AA4RM's)

Subject: Tube Audio / NEED Halli schemats

Message-ID: <9609071016.AA02759@amos>

Yuppers, they're an amazing bunch. Like talking about a short prod'n run of WE triodes whose grids were hand-wound by a famous violinist.

When will 6146s come back on the market that were certifiably among the ones on the 1st SSB DX-pedition?

Imagine this: "Ahhh, the 8/59 Sylvania's that have such gut-wrenching mid-band reactions to Turner ceramic microphones. Nothing was ever made that compares."

M

BTW... anyone out there have one schemat. copy each for the following:

Hallicrafters SX130 RX

Hallicrafters SR160 Xcvt

Those'd make W2CQH vy happy. He might hand wind a screen grid for you - but he won't play ur violin

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: "Richard A. George" <wa6jox@rain.org>
Subject: Re: tubes fs
Message-ID: <Pine.SUN.3.94.960907154522.4549B-100000@coyote.rain.org>

On Tue, 3 Sep 1996, Richard A. George wrote:

I have several transmitting tubes for sale all prices include shipping
CONUS UPS. These are all tested pulls

4-400a's \$45.00 ea

filament xformers for above (will run 2ea) \$45.00
chimmneys for above \$20.00 ea
ceramic sockets for above \$20.00 ea
air system sockets for above \$35.00

B&K model 801 capacitor analyzer \$65.00

please reply direct e-mail K6kWQ Dick

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: UNMATCHED AMPLIFIER TUBES ON HXL-1
Message-ID: <9609071430.aa11655@pcusa01.ecunet.org>

> From: Jerry Proc VE3FAB E-mail: jproc@worldlinx.com HMCS Haida Naval
> Museum Toronto, Ontario

> If you say that the finals are different brands, that could be
> contributing to your problem. Here are two potential solutions:
For sure, it's what came with it, I don't want to spend \$100+ on a new
pair!

> 1) If possible, locate another tube of either existing brand and try
> that. It might help to equalize the plate currents. Perhaps you can
> borrow one from somebody. If this doesn't help, try step #2.

Not likely for me as they are expen\$ive. (Can you tell I got into BA's a

long time ago to save buck\$?!)

> 2) I assume that your plate current meter is monitoring the output of
> both tubes collectively.

Yes.

> You may want to monitor plate currents individually by modifying the
> meter circuit to monitor the first tube , then installing an external
> meter to monitor the second tube. When resonating the final, find some
> point at which the currents are nearly equal. The Marconi PV500 uses
> this scheme. There are two plate meters to monitor the plate currents
> of the 810 output tubes. The manual states that the currents will never
> be the same, so adjust the final for a compromise situation.

I wonder how/why this works? I'll will try it.

> Does the Hammarlund manual specify matched tubes in the final?

No.

-John Sehring (09/07/96 9:47 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996

From: "Allan Fritsche" <fritsche@msn.com>

Subject: Valiant Transmit Lamp.

Message-ID: <UPMAIL03.199609072225240018@msn.com>

Hi Gang, knew I forgot something. Anybody got the wattage for the
6S6 117V lamp used in the Valiant to indicate Transmit. Are even better does
anyone have same?

Thanks

Al

fritsche@msn.com

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996

From: "Barry L. Ornitz" <u856010@eastman.com>

Subject: Very NBFM

Message-ID: <Pine.ULT.3.91.960906163506.21633C-1000000@dua150.kpt.emn.com>

One Glowbugs, Jeff Duntemann, KG7JF, asked about using FM on the HF ham
bands noting that amateurs had tried this in some early rigs of the 1950's.
In my never-ending crusade to bring theory to Boatanchordom as painlessly
as possible, I am copying my reply to both Glowbugs and Boatanchors. :-)
See my note at the end if you don't fall asleep first.

Narrow band FM with the bandwidth equivalent of a conventional AM signal was tried soon after WWII. Sometimes call "Sliver-Band FM", its only claim to fame was that it was possible to adapt virtually any CW transmitter to use it with a minimum of parts. A few amateur receivers were made to receive V-NBFM and FM adapters were available for others (like some early Collins gear). Another name was compatible FM.

The problem with using V-NBFM was discovered in the 1920's by Bell System engineers. They reasoned that they could drop the deviation lower and lower and achieve a narrower and narrower bandwidth. They quickly learned that while this was partially true, they also lost performance as the bandwidth was narrowed.

You really need to get into some heavy trigonometry to understand the signal theory, but simply said - FM generates an infinite number of sidebands about the carrier spaced at the modulating frequency. The amplitude of the carrier and the sidebands are determined by a set of mathematical relationships called Bessel functions.

To begin, we need to define modulation index. This is the ratio of the carrier deviation to the highest audio frequency and is generally represented by the Greek letter Beta. We can set the audio bandwidth to a maximum of 3 kHz like a SSB signal. The amplitude of the carrier, the first sideband, the second sideband, and the third sideband are determined respectively by Bessel functions of order 0, 1, 2, and 3 respectively.

Modulation Index	J(sub)0 decibels	J(sub)1 decibels	J(sub)2 decibels	J(sub)3 dB
0.0	1.0000 0.000000 ---	0.00	0.0000	----- 0.0000 -----
0.1	0.9975	-0.02	0.0499	-26.0 0.0012 -58.4
0.2	0.9900 0.000016 -96	-0.09	0.0995	-20.0 0.0049 -46.2
0.3	0.9776	-0.19	0.1483	-16.5 0.0112 -39.0
0.4	0.9604 0.001320 -58	-0.35	0.1960	-14.2 0.0197 -34.1
0.5	0.9385	-0.55	0.2423	-12.3 0.0306 -30.3
0.6	0.9120 0.004400 -47	-0.80	0.2867	-10.9 0.0437 -27.2
0.7	0.8812	-1.10	0.3290	-9.6 0.0588 -24.6
0.8	0.8462 0.010247 -40	-1.45	0.3688	-8.7 0.0758 -22.4
0.9	0.8075	-1.86	0.4059	-7.8 0.0946 -20.5
1.0	0.7652 0.019563 -34	-2.32	0.4401	-7.1 0.1149 -18.8

1.2	0.6711	-3.46	0.4983	-6.05	0.1593	-15.9
	0.032874	-30				

Amplitude Carrier		Sideband
Modulation		decibels decibels
100%	1.0000	0.00 0.5 -6.0

[It was NOT fun calculating these 20 to 25 years ago; it was not too bad today after I finally located a table of Bessel functions of integer order!]

These numbers may not mean much when you first look at them, but notice what happens if we place some physical meaning on them. Suppose we say the second sidebands must be attenuated by 40 decibels. Looking at the table, a modulation index of 0.3 gives a value of 39 decibels - close enough. But look at the amplitude of the first sidebands. They are 10.5 decibels weaker than the equivalent AM sidebands would be while the carrier is only down about a fifth of a dB. It looks like we can provide lots of carrier but the sidebands - where the intelligence (?) of the signal really is - are pretty weak. The maximum carrier deviation is 900 Hz for a 3 kHz modulating frequency.

Relaxing our standards to allow the second sidebands to be about 30 dB down, we get a modulation index of about 0.5 or a maximum carrier deviation of about 1.5 kHz. Here the first sidebands are 12.3 dB down or a little over 6 decibels weaker than the equivalent AM sidebands.

If we increase our modulation index to 1.0, or where the maximum carrier deviation is 3 kHz for a maximum frequency of 3 kHz, the second sidebands are only around 20 decibels down. This may be enough to attract the attention of the FCC for using excessive bandwidth. But the power in the first set of sidebands has come up to within a decibel or so of the equivalent AM sidebands.

To reach the same sideband power in the first set of sidebands with FM as that in AM, we have to increase the modulation index up to about 1.2. This means a carrier deviation of 3.6 kHz with a 3 kHz audio signal. But the second set of sidebands are only about 16 dB down and the third set are only 30 dB down. The total bandwidth is getting pretty wide.

>From an efficiency standpoint, we send a lot of carrier for very little power in the sidebands with low values of modulation index. AM is usually better, but consider that the carrier itself carries no intelligence [true in CW too since keying produces sidebands and CW has a finite bandwidth proportional to keying rate]. By eliminating the carrier, as in double sideband, we can concentrate the power into something useful. Also since the sidebands are mirror images of each other in the spectral domain, only one sideband is really needed. Thus we can get an 8-fold or 9 dB

improvement in efficiency with SSB over AM.

[Another way of looking at this is to assume we have a 100 watt 100% modulated AM rig. The total carrier power is 100 watts and we need an additional 50 watts to modulate it fully. Each sideband contains only 25 watts average or 50 watts Peak Envelope Power. The total transmitter power is 400 watts PEP. This all assumes single-tone sinusoidal modulation.]

The fallacy of the SBE paper KJ6F mentioned occurs during weak signals. FM detection following hard limiting of the input signal is generally considered a good means of reducing received noise and getting a higher signal to noise ratio. The maximum possible improvement in S/N ratio occurs when the carrier to noise ratio is about 12 dB. Below 9 dB of C/N ratio, the noise performance of an FM system is worse than linear detection. For values of carrier above this 12 dB noise threshold, the S/N ratio is directly proportional to the input C/N ratio. With low values of modulation index, the S/N ratio divided by the C/N ratio is 3 times Beta squared. To really get the benefits of FM, we need relatively high values of modulation index. In the broadcast scheme mentioned, the noise is also multiplied by the same frequency ratio in the receiver as the incoming signal. Thus the noise benefits of this scheme are apparent only on strong signals - but then they would be apparent on strong AM signals too.

To conclude, V-NBFM or AM bandwidth FM or compatible FM, whatever it is called, is not a very effective way of modulating your transmitter. It is, however, very inexpensive and simple to do. It is fun to play with but probably not worth getting serious about. To add FM to a simple CW transmitter, little more is needed than a stage or two of audio amplification and either a reactance modulator or perhaps a new-fangled varactor diode.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

[As a side note from me, the hairy one Jack Hill, W4PPT, refers to as "Papa Smurf", I can say that about the only place chemical engineers ever see Bessel functions is in some weird conduction heat transfer problems. I am indebted to Jim Thurston, W4PPB, who introduced me to this fun stuff in a communications theory class! I had to borrow the Bessel tables from a mechanical engineer who claims he NEVER EVER looked in that section of his book.]

Now to take Lana to dinner to celebrate 15 years of marriage... the little woman who let me go to Shelby last weekend instead!

73 again, and I don't use blue shampoo - yet!
Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Sat Sep 7 11:51:48 1996
From: "William B. Ross" <billross@txdirect.net>
Subject: WTB:HV Connector for KWS-1
Message-ID: <3230F28A.3AA0@txdirect.net>

I am badly in need of the male (cable) HV connector utilized on the Collins KWS-1. I need this connector to preserve the integrity of this fine BA.

If anyone has or knows of a source for this connector, please contact me via Email or twisted pair as shown below. Any and all assistance will be appreciated and impart a nice warm feeling.

Bill Ross K5LLK
billross@txdirect.net
(210) 653-3413

From boatanchors@theporch.com Sat Sep 7 18:32:17 1996
From: John Kolb <jlkolb@cts.com>
Subject: WTD Info: RT-618A/URC
Message-ID: <Pine.SCO.3.91.960907094712.28545B-100000@sd.cts.com>

I picked up a RT-618A/URC and AM-3007/URT at the local swap today. The RT-618A looks like it would be closely related to a late model R-1051 - does anyone know what it would be closest to? Anyone have info on module interchangeability with an R-1051? (or interchanging modules between early and late 1051's)?

Were these two units indeed used as a set as the seller told me?
Is there another name for the combined unit? Where were these used?

Will the RT-618 operate stand alone as a receiver?

Can anyone point me towards a manual or cables or connectors?

I assume this has a couple of tubes in the receiver front end at least, like the 1051, making it legal for the BA list.

John Kolb KK6IL